

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: NEO-RAY

Report Number: P1061742

Luminaire Tested: S125RDR-S610D940-X4F0-XX-UDD-BVL-W

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1061742
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-84)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDR-S610D940-X4F0-XX-UDD-BVL-W
Description: DEFINE 5 WHITE REGRESSED DIRECT RECESSED HOUSING WITH BLACK STRAIGHT BLADE LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

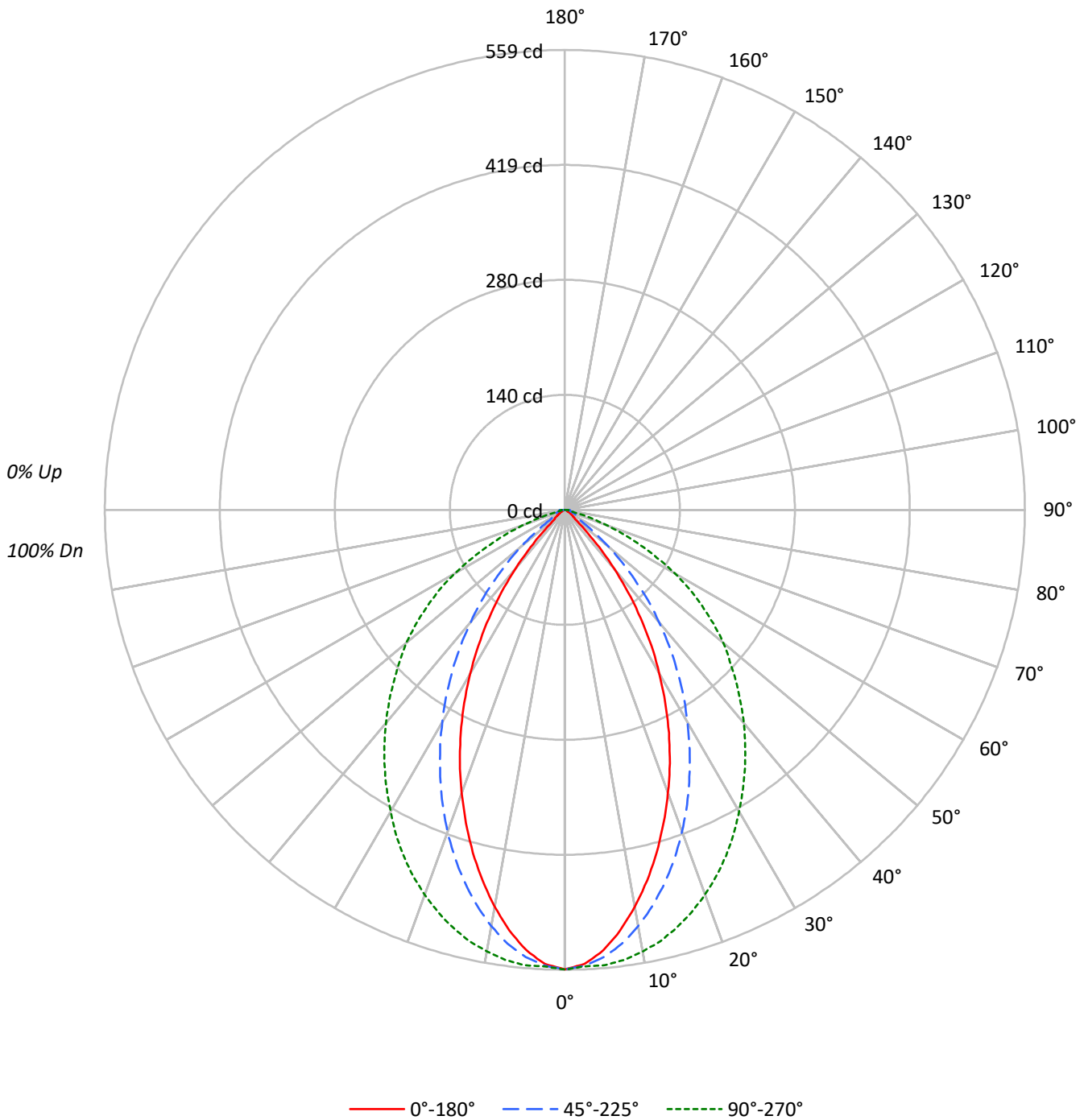
Lumens per Lamp: N/A
Luminaire Lumens: 722.7 lumens
Efficiency: N/A
Efficacy: 36.9 lumens/watt
Spacing Criteria (0/90/45): 0.79 / 1.14 / 0.98
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 19.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90
2	104	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	80
3	98	89	83	78	95	88	82	78	85	80	76	83	79	75	80	77	74	72
4	91	82	75	70	89	81	74	69	78	73	68	76	71	67	74	70	67	65
5	85	75	68	63	83	74	67	62	72	66	62	70	65	61	69	64	60	59
6	80	69	62	57	78	68	61	56	67	60	56	65	60	56	64	59	55	53
7	75	64	57	52	74	63	56	51	62	56	51	60	55	51	59	54	50	49
8	71	59	52	47	69	59	52	47	58	51	47	56	51	47	55	50	46	45
9	67	55	48	44	65	55	48	44	54	48	43	53	47	43	52	47	43	41
10	63	52	45	40	62	51	45	40	50	44	40	49	44	40	49	44	40	38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3846	3846	3846
5°	3715	3771	3839
10°	3424	3593	3810
15°	3075	3345	3747
20°	2683	3052	3647
25°	2273	2720	3522
30°	1825	2368	3365
35°	1352	1998	3208
40°	837	1595	3041
45°	326	1167	2859
50°	153	732	2693
55°	112	313	2444
60°	77	222	2119
65°	51	233	1649
70°	50	213	1037
75°	67	215	330
80°	99	246	222
85°	150	490	340

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 2859 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.2	7.1
10°-20°	132.7	18.4
20°-30°	169.0	23.4
30°-40°	157.4	21.8
40°-50°	108.3	15.0
50°-60°	61.3	8.5
60°-70°	29.0	4.0
70°-80°	9.1	1.3
80°-90°	4.7	0.7
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	353.0	48.8
0°-40°	510.4	70.6
0°-60°	680.0	94.1
0°-90°	722.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	722.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	559	559	559	559	559	
5°	538	545	546	550	556	50
15°	431	446	469	505	526	120
25°	299	318	358	418	464	136
35°	161	183	238	319	382	99
45°	34	53	120	217	294	32
55°	9	11	26	125	204	9
65°	3	4	14	45	101	3
75°	2	6	8	9	12	3
85°	2	5	6	6	4	2
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	558.6	558.6	558.6	558.6	558.6
2.5°	552.4	558.0	554.3	554.9	555.5
5°	537.5	545.0	545.6	550.5	555.5
7.5°	515.8	525.1	531.9	543.7	551.8
10°	489.7	500.9	513.9	533.2	545.0
12.5°	461.8	474.8	492.8	520.1	536.9
15°	431.4	445.6	469.2	504.6	525.7
17.5°	399.1	415.2	443.8	486.0	512.7
20°	366.2	383.6	416.5	464.9	497.8
22.5°	333.3	351.3	387.9	441.9	481.6
25°	299.2	318.4	358.1	418.3	463.6
27.5°	264.4	284.3	328.3	394.1	444.4
30°	229.6	250.8	297.9	369.3	423.3
32.5°	195.5	216.6	268.1	344.5	402.8
35°	160.8	183.1	237.7	319.0	381.7
37.5°	126.0	150.2	207.9	293.0	360.0
40°	93.1	116.1	177.5	267.5	338.3
42.5°	62.1	84.4	150.2	242.1	315.9
45°	33.5	53.4	119.8	216.6	293.6
47.5°	18.0	28.6	93.7	191.8	271.9
50°	14.3	16.1	68.3	168.8	251.4
52.5°	11.8	13.0	44.7	147.1	227.8
55°	9.3	10.6	26.1	124.8	203.6
57.5°	7.4	8.7	16.8	103.7	180.0
60°	5.6	6.8	16.1	83.2	153.9
62.5°	4.3	5.0	14.9	63.9	126.6
65°	3.1	3.7	14.3	44.7	101.2
67.5°	2.5	3.1	13.0	28.6	75.7
70°	2.5	2.5	10.6	18.6	51.5
72.5°	2.5	4.3	9.3	12.4	31.0
75°	2.5	5.6	8.1	8.7	12.4
77.5°	2.5	6.2	6.8	6.8	6.8
80°	2.5	5.6	6.2	6.2	5.6
82.5°	2.5	5.0	5.6	6.2	5.0
85°	1.9	5.0	6.2	5.6	4.3
87.5°	1.9	5.0	5.6	5.0	3.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)